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DVDR3600



EN	DVD Player/Recorder	2
ZH-CN	DVD 播放机/刻录机	66
ZH-TW	DVD 播放機/燒錄機	128

PHILIPS

LASER	
Type	Semiconductor laser InGaAlP (DVD) AlGaAs (CD)
Wave length	658 nm (DVD) 90 nm (CD)
Output Power	30 mW (DVD+RW write) 1.0 mW (DVD read) 1.0 mW (CD read)
Beam divergence	84 degrees (DVD) 61 degrees (CD)

For Customer Use:

Read carefully the information located at the bottom or rear of your DVD Recorder and enter below the Serial No. Retain this information for future reference.

Model No. DVD PLAYER/ RECORDER
DVDR3600

Serial No. _____

Laser safety

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

USE OF CONTROLS OR ADJUSTMENTS
OR PERFORMANCE OF PROCEDURES
OTHER THAN THOSE SPECIFIED HEREIN
MAY RESULT IN HAZARDOUS
RADIATION EXPOSURE.

NOTE:
PICTURES SHOWN MAYBE DIFFERENT
BETWEEN COUNTRIES.

CAUTION

Use of controls or adjustments or
performance of procedures other than herein
may result in hazardous radiation exposure or
other unsafe operation.

Copyright notice

"The making of unauthorized copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes."

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

Due to the inconsistency of disc formats provided by various disc manufacturers, your DVD system may require a playability enhancement or upgrade. As DVD technology advances, these enhancements will become common and will be easy to complete.

Go to www.philips.com/welcome for software upgrade.

'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

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English

Contents

1 Important

Safety



Warning!

Risk of fire or electric shock!

- Ensure that air can circulate freely through the ventilation holes on this unit. Allow at least 5~10 cm clearance around the unit.
- Never expose this unit to direct sunlight, naked flames or heat.
- Never place this unit on another electrical equipment.
- Keep away from this unit during lightning storms.
- Never remove the casing of this unit. Please leave all maintenance work to qualified personnel.
- Keep this unit away from water, moisture and liquid-filled objects.
- This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.
- Install this unit near the AC outlet where the AC power plug can be easily reached.



Caution!

- Remove batteries if they are exhausted or if the remote control is not to be used for a long time.
- Do not mix batteries (old and new or carbon and alkaline, etc.).
- Batteries contain chemical substances, they should be disposed of properly.
- Visible and invisible laser radiation when open. Avoid exposure to beam.
- Use of controls or adjustments on performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.



Note

- Refer to the type plate at the rear or bottom of the product for identification and supply ratings.

Notice

Recycle notice



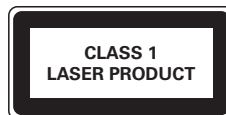
Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

Copyright notice



Be responsible
Respect copyrights

The making of unauthorised copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be infringement of copyrights and constitute a criminal offence. This unit should not be used for such purpose.



Trademark notice

This product incorporates copyright protection technology that is protected by US patents. Use of this copyright protection technology must be authorised by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patent Number 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132

HDMI

HDMI, and HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.



DivX Ultra Certified products: "DivX, DivX Ultra Certified, and associated logos are trademarks of DivX, Inc. and are used under license.



i.Link is also known as 'FireWire' and 'IEEE1394'. This connection is used for transferring of high bandwidth digital signals used by digital video (DV) camcorders. It carries all audio and video signals via a single cable.

2 Your product

Congratulations on your purchase and welcome to Philips! To fully benefit from the support that Philips offers, register your product at www.philips.com/welcome.



Note

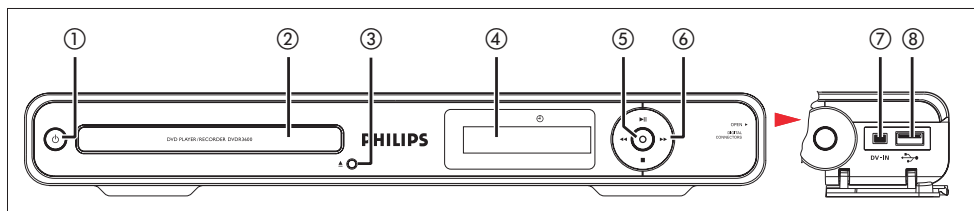
- DO NOT disconnect the recorder from the power supply unless you are not using this product for a long period of time. Power is needed to enable the recorder to perform essential tasks like timer recordings and automatic update of the system date/time.

Region codes

DVD films are usually not released at the same time in all regions of the world, thus all DVD players are keyed to a specific region code.

Region/ Country	DVD Region Codes	
Asia Pacific, Taiwan, Korea		
Australia, New Zealand		
China		

Product Overview



Main Unit

- ① (Standby-on)
 - Turns on this unit or switches to standby mode.
- ② **Disc tray**
- ③ (Open/Close)
 - Opens/ closes the disc tray.
- ④ **System display panel**
 - Displays information on the current status of the recorder.
- ⑤ (Record)
 - Starts recording the current TV channel or the current video source.
 - Press repeatedly to set the recording length in 30-minute increments.
 - Indicator lights up during recording.
- ⑥ (Play/Pause)
 - Starts disc play.
 - Pauses disc play or recording.
- Press to make a forward/ reverse search.
- (Stop)
 - Stops disc play or recording.



Note

- The following connections are under the flap at the right corner of the front panel.

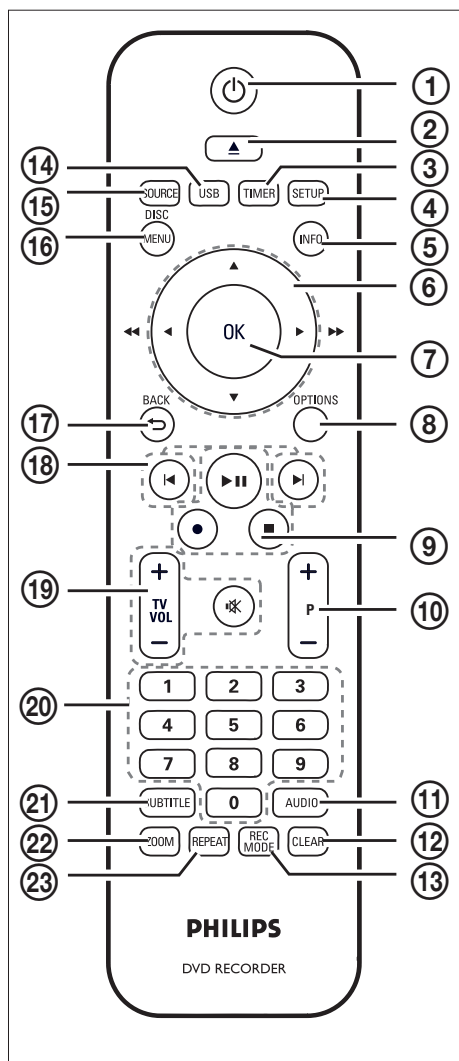
⑦ DV IN

- Input for digital camcorders or other suitable devices using this connector.
- Press **SOURCE** repeatedly to select 'DV' in order to view the video source.

⑧ (USB)

- Input for USB device or digital camera.
- Only brands and models of digital cameras which conform to USB Mass Storage Device class standard are supported.

Remote Control



- ① **⏻** (Standby-On)
 - Turns on the recorder or switches to standby mode.
- ② **⬆** (Open/Close)
 - Opens/ closes the disc tray.
- ③ **TIMER**
 - Enters/ exits the timer schedule menu.
- ④ **SETUP**
 - Enters/ exits the system setup menu.
- ⑤ **INFO**
 - Displays/ hides the on-screen help text.
- ⑥ **⬅ ➡** :
 - Cursor keys for moving to the left/right.
 - Press and hold to fast reverse or fast forward search.
- ⬆ ⬆** :
 - Cursor keys for moving up/ down.
- ⑦ **OK**
 - Confirms an entry or selection.
- ⑧ **OPTIONS**
 - Displays/ hides the options menu during disc play.
- ⑨ **▶▶** (Play/Pause)
 - Starts disc play.
 - Pauses disc play or recording.
- (Record)
 - Starts recording the current TV channel or the current video source.
 - Press repeatedly to set the recording length in 30-minute increments.
- (Stop)
 - Stops disc play or recording.

⑩ P + / -

- In tuner mode, select the next or previous TV channel.

⑪ AUDIO

- Selects an audio language.

⑫ CLEAR

- In video edit mode, select to clear the entry.

⑬ REC MODE

- Toggles between recording modes: HQ, SP, SPP, LP, EP, or SLP. This mode determines the quality of the recording and the length of time you can record on a recordable DVD.

⑭ USB

- Access the contents of the connected USB device.

⑮ SOURCE

- Selects the recorder video source (Tuner, EXT1, or DV).

⑯ DISC MENU

- Access the DVD disc menu.
- Access the VCD disc menu when PBC is turned on.

⑰ BACK

- Returns to the previous menu.

⑱ ⏮ ⏭

- Skips to the previous or next chapter/track/title.

⑲ TV VOL + / -

- Adjusts the volume of the TV (compatible TVs only).

🔇 (Mute)

- Mute the volume of the TV set (compatible TVs only).

⑳ Numeric keypad

- Selects a chapter/track number to play.
- Selects the recorder's preset TV tuner channel.

㉑ SUBTITLE

- Selects a subtitle language during play of a DVD or DivX Ultra Video disc.

㉒ ZOOM

- Enlarges a picture during disc play.

㉓ REPEAT

- Access the various repeat options.

3 Connect

This section describes the connections for this recorder.

Basic connections:

- Connect antenna or cable
- Connect video/audio cables

Optional connections:

- Connect other devices
- Connect to AV amplifier/ receiver
- Connect to Cable box/ Satellite receiver
- Connect to VCR or other similar device
- Connect to digital video/ digital 8 camcorder
- Connect to analogue camcorder

Place the unit

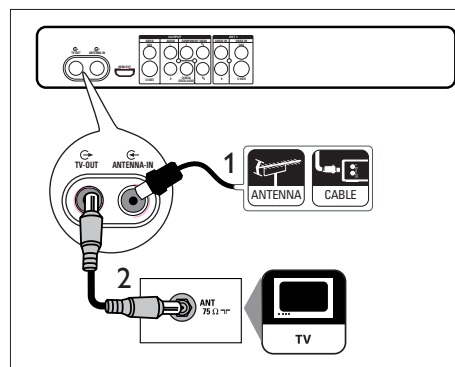
- Place this unit on a flat, hard and stable surface. Do not place this unit on a carpet.
- Install this unit near the AC outlet where the AC power plug can be easily reached.



Connect antenna or cable

To watch and record TV programmes, connect this recorder to an antenna or a cable box/ satellite receiver.

Connect to an off-air antenna or cable TV signals

To get TV reception, connect the recorder directly to an off-air antenna or a cable TV signal.



- 1 Unplug the existing antenna cable.
- 2 Connect the antenna cable to the **ANTENNA-IN**  socket.
- 3 Connect the supplied RF antenna cable to the **TV OUT**  socket and to the antenna input on the TV.



Tip

- The antenna input socket on your TV may be labelled as ANT, ANTENNA IN or RF IN.

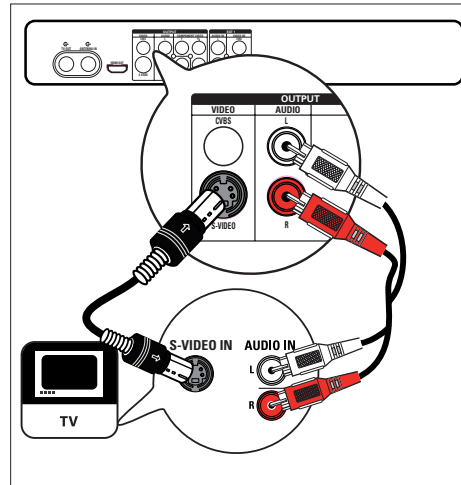
Connect video/audio cables

To view the playback from this recorder, connect the recorder to the TV.

Before you start, select the best video connection.

- Option 1: Connect to S-video socket (for a standard TV).
- Option 2: Connect to composite video sockets (for a standard TV).
- Option 3: Connect to component video sockets (for a Progressive Scan TV).
- Option 4: Connect to HDMI socket (for a HDMI, DVI or HDCP-compliant TV).

Option 1: Connect to S-Video socket



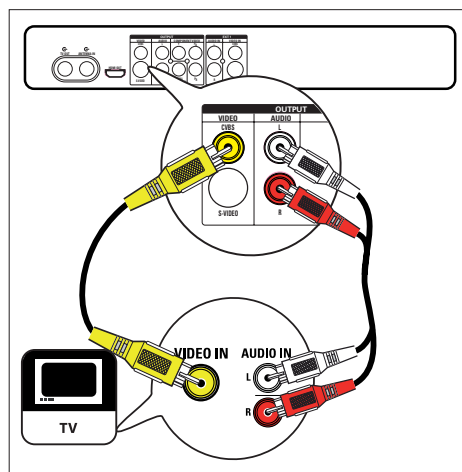
- 1 Connect an S-video cable (not supplied) from the **S-VIDEO OUTPUT** socket to the S-Video input socket on the TV.
- 2 Connect an audio cable (red/white ends) from the **AUDIO-L/R** sockets to the matching audio input sockets on the TV.



Tips

- The S-video input socket on your TV may be labelled as Y/C or S-VHS.
- This connections provides standard picture quality.
- If your TV has a digital audio input socket, you can enjoy multi-channel surround sound output. See chapter 'Connect other devices - Connect to AV amplifier/ receiver'.

Option 2: Connect to composite video sockets



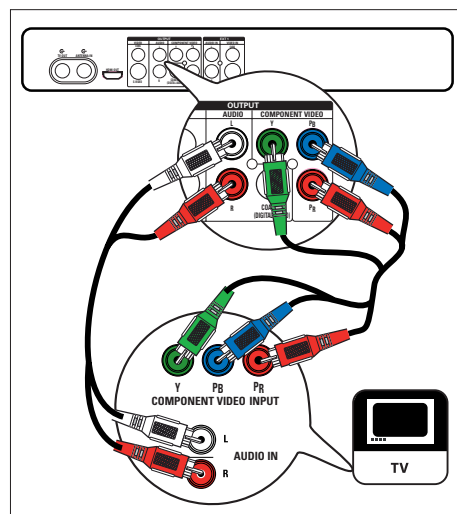
- 1 Connect a composite video cable (yellow end) from the **CVBS OUTPUT** socket to the video input socket on the TV.
- 2 Connect an audio cable (red/white ends) from the **AUDIO-L/R** sockets to the matching audio input sockets on the TV.



Tips

- The video input socket on your TV may be labelled as A/V IN, VIDEO IN, COMPOSITE or BASEBAND.
- This connection provides standard picture quality.
- If your TV has a digital audio input socket, you can enjoy multi-channel surround sound output. See chapter 'Connect other devices - Connect to AV amplifier/ receiver'.

Option 3: Connect to component video sockets



- 1 Connect component video cables (red/blue/green - not supplied) from the **COMPONENT VIDEO OUTPUT** sockets to the component input sockets on the TV.
- 2 Connect an audio cable (red/white ends) from the **AUDIO-L/R** sockets to the matching audio input sockets on the TV.

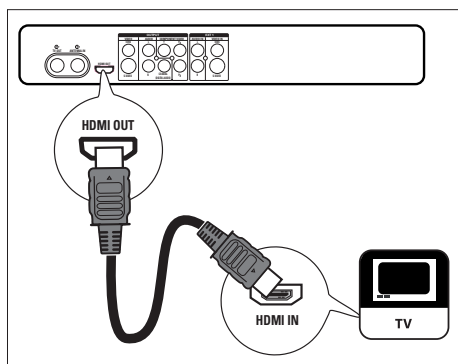


Tip

- To setup progressive scan. See chapter "Setup Progressive Scan",

Option 4: Connect to HDMI socket

HDMI (High Definition Multimedia Interface) is a digital interface that supports both audio and video transmission through a single cable.



- 1 Connect a **HDMI** cable (not supplied) from the **HDMI OUT** to the HDMI IN socket on your TV.
 - To adjust HDMI video settings (see chapter 'Adjust settings – Adjust HDMI video and audio').



Notes

- Audio may not be supported through the HDMI connection, it depends on your TV capabilities. In this case, make an audio connection to your TV and turn off the HDMI audio output (See chapter 'Adjust Settings - Adjust HDMI video and audio').
- HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a copy protection signal that comes with the HD content (DVD disc or Blu-ray disc).



Tips

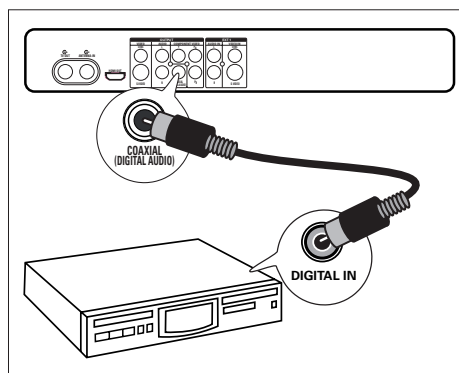
- Use a HDMI/DVI adaptor if your TV has only a DVI connection. An extra audio connection is needed to complete this connection.
- This connection provides the best picture quality.

Connect other devices

To connect this recorder to other devices, you can use these suggested connections for common used cases. Other solutions may be possible, it depends on the features of the device.

Connect to AV amplifier/receiver

You can enjoy multi-channel surround sound from this recorder when it is connected to a digital audio device.



- 1 Connect a coaxial cable (not supplied) from the **COAXIAL (DIGITAL AUDIO) OUTPUT** socket and to the digital input socket on the amplifier/receiver.
 - Select the digital audio output setting according to the type of audio that the device can output (See chapter 'Audio settings').

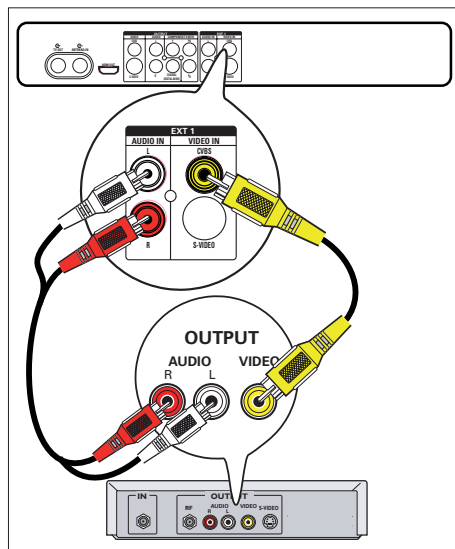


Tip

- The digital coaxial input socket on the device may be labelled as COAXIAL IN or DIGITAL IN.

Connect to cable box/satellite receiver

- 1 Ensure that the cable box/ satellite receiver is connected to the TV with an antenna cable.



- 2 Connect a composite video cable (yellow end) from the **VIDEO IN CVBS** socket to the video output socket on the cable box/ satellite receiver.
- 3 Connect an audio cable (red/white ends) from the **AUDIO IN** sockets to the matching audio output socket on the cable box/ satellite receiver.
 - To view the video input, press **SOURCE** repeatedly until 'EXT1' is displayed.

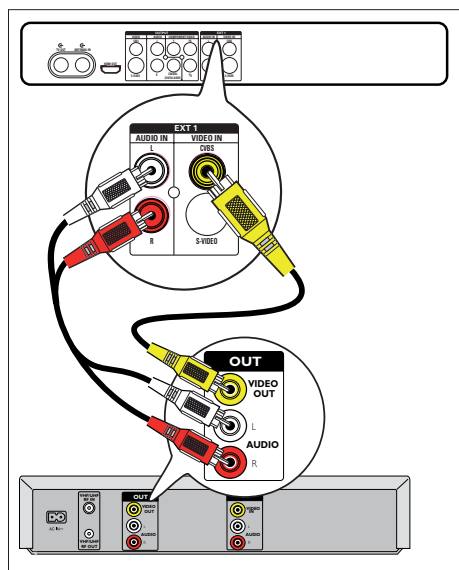


Tips

- When using this connection, automatic channel search is not required. See chapter 'Get Started'.
- The scart socket on the device may be labelled as TV OUT or TO TV.

Connect to VCR or similar device

You can record from a video tape to a recordable DVD or use the VCR for playback when the recorder is turned off.



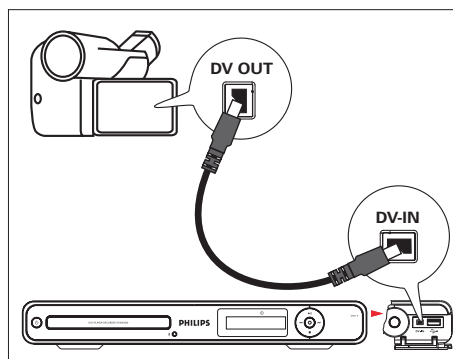
- 1 Connect a composite video cable (yellow end) from the **VIDEO IN CVBS** socket to the video output socket on the device.
- 2 Connect an audio cable (red/white ends) from the **AUDIO IN** sockets to the matching audio output socket on the device.
 - To view the video input, press **SOURCE** repeatedly until 'EXT1' is displayed.



Notes

- Your new recorder replaces the VCR for all your recording needs. Just unplug all the connections to your VCR.
- Most commercial video tapes and DVDs are copy-protected and therefore cannot be recorded.

Connect to digital video/digital 8 camcorder



- 1 Flip down the cover on the right hand corner of this recorder.
- 2 Connect an i.LINK 4-pin cable (not supplied) from the **DV-IN** socket on the front panel to the DV OUT socket on the camcorder.
 - To view the video input, press **SOURCE** repeatedly until 'DV' is displayed.



Note

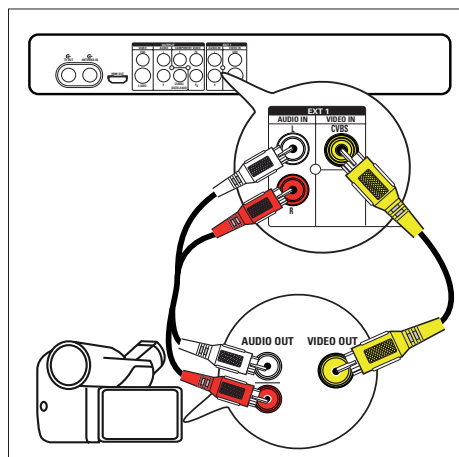
- It is not possible to record or copy the titles from this recorder to your camcorder.



Tip

- This connection provides the best picture quality.

Connect to an analogue camcorder



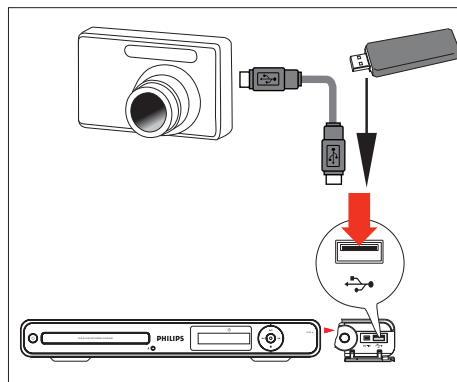
- 1 Connect a video cable (yellow - not supplied) from the **VIDEO IN CVBS** socket and to the S-VHS or video output socket on the camcorder.
- 2 Connect the audio cable (not supplied) from the **AUDIO IN** sockets and to the audio output sockets on the camcorder.
 - To view the video input, press **SOURCE** repeatedly until 'EXT1' is displayed.




Tip

- To record from this device, see chapter 'Record from other devices'.

Connect to a USB device or digital camera



- 1 Flip down the cover on the right hand corner of this recorder.
- 2 Connect a USB device or digital camera to the  USB socket.



Note

- The USB socket does not support a USB hub device. Only digital cameras which support USB Mass Storage Device class standard are supported.

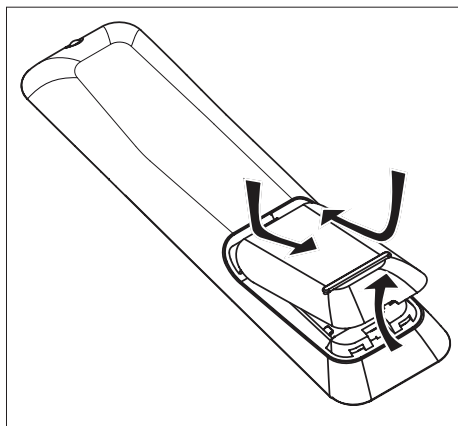


Tips

- You can copy files from the recorder to your USB device.
- To view the contents of the connected USB device, see chapter 'Play – Play from USB'.

4 Get Started

Prepare the remote control



- 1 Open the battery compartment cover.
- 2 Insert two batteries type R03 or AAA. Match the indications (+ -) inside the battery compartment.
- 3 Close the cover.

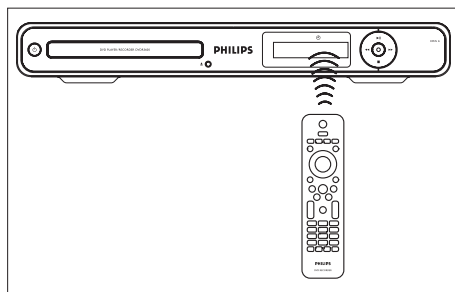


Note

- If you are not going to use the remote control for a long time, remove the batteries.

Navigate through the menu

- 1 Point the remote control directly at the remote sensor on the front panel and select the desired function.



- 2 Use the following buttons on the remote control to navigate through the on-screen menus, enter characters or numbers and confirm your selection.


Action	Button
Move up or down in a menu.	▲▼
Move left or right in the menu.	◀▶
Confirm a selection.	OK

First Time Settings

When you turn on this recorder for the first time, follow the instructions on the TV to complete the initial setup for this recorder.

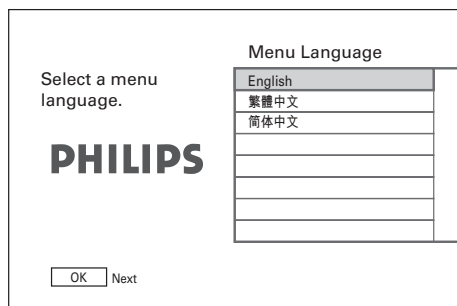
Notes



- Before you start, ensure that you have made all the required connections.
- If a cable box or satellite receiver is connected, turn it on now.
- Complete the initial setup for this recorder before you insert a disc for play or recording.

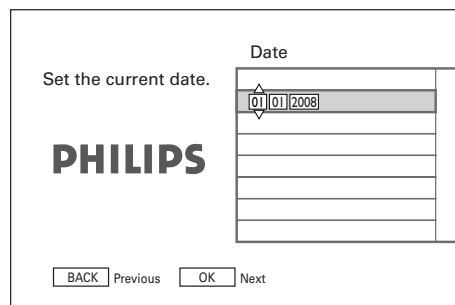
- 1 Press  to turn on the recorder.
- 2 Turn on the TV to the correct video-in channel.



Note

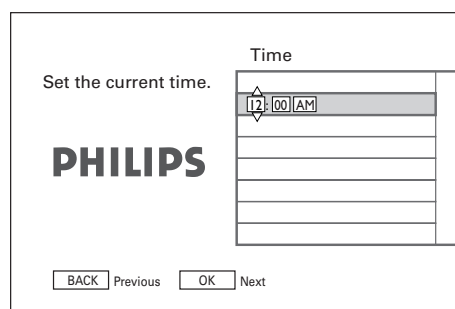
- Select a channel on your TV, then press the channel down button on your TV remote control until you see the menu language screen. (The screen options may differ depending on your country of purchase).





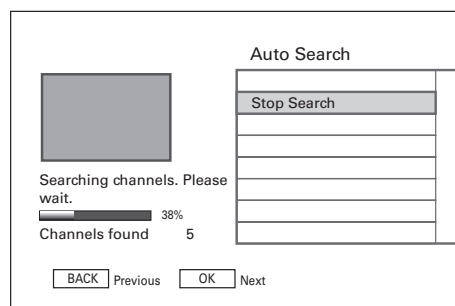
- 3 Press   to select an on-screen display language, then press **OK**.
↳ The date entry screen is displayed.



- 4 Press   (or the numeric keys) to enter the correct date, then press **OK**.
↳ The time entry screen is displayed.

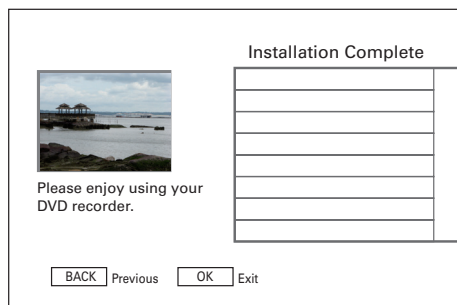


- 5 Press   (or the numeric keys) to enter the correct time, then press **OK**.
↳ The channel search screen is displayed.



6 Store the preset channels.

- **If a cable box or satellite receiver is connected:**
press **OK** to stop the channel search.
- **If an off-air antenna is connected:**
wait for the channel search to complete. This process takes a few minutes. Once complete, the first preset channel is displayed.



7 Press **OK** to exit.

The DVD recorder is now ready for use.



Tips

- To re-install or modify the TV channels, see chapter 'Adjust Settings - Tuner settings'.
- To record from a cable box or satellite receiver, see chapter 'Record from other devices'.

5 Record

Before you record

Record media

The recording media for this recorder are DVD±R, DVD±RW or DVDR+DL discs.



Notes

- Copy-protected programmes cannot be recorded.
- If a power failure occurs during recording, the disc may be damaged.
- Cannot record or copy both PAL and NTSC video format on the same recordable DVD.
- If the recordable DVD will be played back on other recorders/players/PCs, adapt the menu format (See chapter 'Play your recordings on other players').

Supported disc types and media speeds

Disc	Media speeds
DVD+R/-R	1x ~ 16x
DVD+RW	2.4x ~ 8x
DVD-RW	1x ~ 6x
DVD+R DL	2.4x ~ 8x



DVD±RW

- Recordings can be erased and the space can be used for new recordings.



DVD±R

- Recordings can be erased, but the space cannot be used for new recordings.
- Recordings can be edited or added on the disc before it is finalised.
- DVD±R must be finalised before they can be played on other DVD players (See chapter 'Edit Recordings – Play your recordings on other players').



DVD+R Double Layer

- Similar to the DVD±R, but with a higher storage capacity of 8.5 GB.
- The disc contains two recording layers and are accessed on the same side, which makes recording uninterrupted.

Recording settings

Select the recording quality

Before you record, select the recording quality. The recording quality determines the amount of space the recorded title occupies on a recordable DVD.

Recording Quality	Hours of recording that can be stored	
	DVDR/ DVDRW	DVDR Double Layer
[HQ] - high quality	1	1 hr 55 mins
[SP] - standard play quality	2	3 hrs 40 mins
[SPP] - standard play plus	2.5	4 hrs 35 mins
[LP] - long play	3	5 hrs 30 mins
[EP] - extended play	4	7 hrs 20 mins
[SLP] - super long play	6	12 hrs

- 1 Press **SETUP**.
↳ The setup menu is displayed.
- 2 Select [**Recording**] > [**Rec. Quality**] and press **OK**.

Setup	Recording	
Tuner	Rec. Quality	SP
Disc	Rec. Language	Language 1
Playback	Auto Chapter	On
Recording	Overwrite	Off
Video		
Audio		
System		

- 3 Select a setting and press **OK**.
 - To return to the previous menu, press **BACK**.
 - To exit the menu, press **SETUP**.



Tip

- The default record mode is SP.
- For other record settings, see chapter 'Adjust Settings – Recording settings'.

Select the recording language

Some TV programmes are broadcast in two languages. Before you record, select the language to record.

- 1 Press **SETUP**.
↳ The setup menu is displayed.
- 2 Select [**Recording**] and press **▶**.
- 3 Select [**Rec. Language**] and press **▶**.

[Language 1]

Original broadcast audio language.

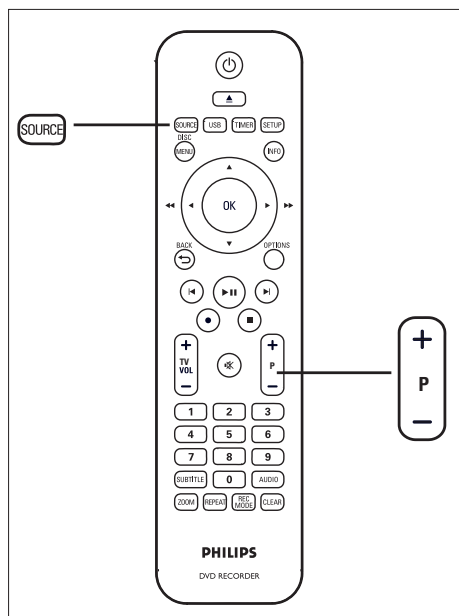
[Language 2]

Additional audio language.

- 4 Select a setting and press **OK**.
 - To return to the previous menu, press **BACK**.
 - To exit the menu, press **SETUP**.

Record the current TV programme

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Select a recording source:
 - To record directly in tuner mode, press **P + / -** keys to select the TV channel you wish to record.
 - To record from a satellite receiver or cable box connected to **EXT1**, press **SOURCE** repeatedly to select 'EXT1'.



Notes

- If the DVD±RW contains other recordings, the new recording will be added after the last title. (To record over previous recordings, see chapter 'Edit Recordings – Overwrite a title/ titles').

- 3 Insert a recordable DVD into the recorder.
 - To select another record quality, press **REC MODE** repeatedly.
- 4 Press **●** to start recording.
 - Press **●** repeatedly to add recording time in 30 minutes intervals.
 - To pause recording, press **▶||**.
 - To continue recording, press **▶||** again.
- 5 To stop recording, press **■**.
 - If uninterrupted, recording continues until the disc is full.

About timer recording

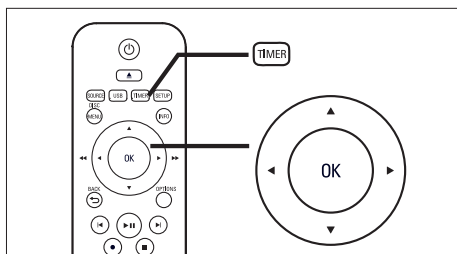
Schedule a timer recording to start and stop at a specified date and time.

You can schedule up to 7 recordings at a time. During timer recording, you can only watch the current channel.

Before you start ...

Ensure that the system clock is correct. To adjust the system clock, see chapter "Adjust Settings – System settings."

Schedule a timer recording



- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **TIMER**.
↳ The timer recording list is displayed.

Timer Recording List 01.01.2008 08:15:10 AM						
Date	Start	End	Source	Quality	Repeat	Status
--:--	--:--	--:--	--	--	--	--
<div> <div>BACK</div> Back <div>TIMER</div> Exit <div>OK</div> Edit </div>						

- 3 Select an empty row in the menu and press **OK**.
↳ The timer menu is displayed.
- 4 Use **▲▼** keys to select the value of each setting and use **◀▶** keys to move within the entry field.

[Date]

Date for recording (day/ month).

[Start]

Start time of recording (hours : minutes).

[End]

End time of recording (hours : minutes).

[Source]

Select the TV channel or the correct video source (e.g EXT1), which you have used to connect the external device.

[Quality]

Select a mode of recording quality:

- **[Auto]** – Selects the optimal recording mode. (Depends on the remaining disc space and length of recording).
- **[HQ] ~ [SLP]** – See chapter 'Before you record – Select the recording quality'.

[Repeat]

Select a repeat recording option: (None, Daily, Weekly, Monday - Friday or Weekend)

[Status]

Displays the status of the scheduled recording. Once a timer is scheduled, **[Valid]** is displayed. If other messages are displayed, see chapter 'Troubleshooting - Record'.

- 5 Use ▲▼ keys to select the value of each item and use ◀▶ keys to move within the entry field.
 - You may also use the numeric keypad to enter in the field value.
- 6 Once complete, press **OK**.
- 7 Press **TIMER** to exit the menu.
- 8 Insert a recordable DVD into the recorder.
- 9 Press **⏻** to switch the recorder to standby mode.

Edit a timer recording

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **TIMER**.
 - ↳ The timer recording list is displayed.

Timer Recording List 01.01.2008 08:15:10 AM						
Date	Start	End	Source	Quality	Repeat	Status
01.01Mon	09:00AM	09:30AM	P01	SP	Daily	Valid
---	---	---	---	---	---	---
<div> <div>BACK</div> Back <div>TIMER</div> Exit <div>OK</div> Edit </div>						

- 3 Use ▲▼ keys to select the timer which you want to edit, then press **OK**.
 - ↳ The edit menu is displayed.
- 4 Select the preferred item and press **OK**.
 - Make the required changes.

[Edit]
Change the timer schedule.

[Delete]
Delete a timer programme.

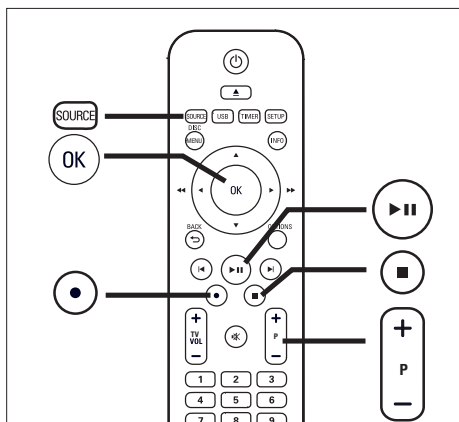
[Disable] / [Enable]
Disable or enable a repeat timer recording.

[Cancel]
Exit from the edit menu.
- 5 Press **OK** to confirm.
- 6 Once complete, press **TIMER** to exit the menu.

Record from other devices

Record from a digital video camcorder

You can record the content from a digital video camcorder when you connect it to the DV-IN socket on the recorder.



- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Connect the digital video camcorder to the **DV-IN** socket on the recorder.
- 3 Press **SOURCE** repeatedly to select 'DV IN'.
- 4 Start play on the digital video camcorder.
- 5 Press ● at the point you want to start recording.
 - To pause recording, press ▶||.
 - To continue recording, press ▶|| again.
- 6 To stop recording, press ■.
 - ↳ A new title is saved.
- 7 To exit, press **SOURCE**.



Tip

- To view the recording, see chapter 'Play – Play video'.


Record from an external device (Analogue camcorder/ Satellite receiver/ VCR/ DVD Player)

You can record from the external device to a recordable DVD. Copy-protected material cannot be recorded on this recorder.

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Connect the external device (e.g. analogue camcorder, VCR, DVD player) to this recorder.
- 3 Press **SOURCE** to select the video source.
 - **[EXT1]** : the device connected to the **EXT1** (VIDEO IN and AUDIO L/R) sockets on the recorder.
- 4 Start play on the external device and locate the content to record.
- 5 Press ● at the point you want to start recording.
 - To pause recording, press ▶||.
 - To continue recording, press ▶|| again.
- 6 To stop recording, press ■.
 - ↳ A new title is saved.
- 7 To exit, press **SOURCE**.

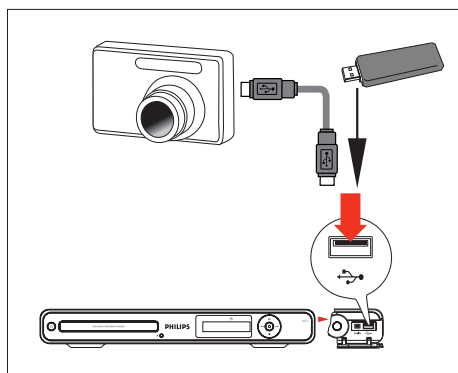
6 Play

Play from USB

View the contents of a USB drive, USB memory card reader or digital camera through this recorder. The  USB socket supports the playback of JPEG, MP3, WMA and DivX files.

Note

- The USB socket does not support a USB hub device. Only digital cameras which support USB Mass Storage Device class standard are supported.




- 1 Flip down the flap on the front panel.
- 2 Connect the USB device to the  USB socket.
- 3 Press **USB**.
↳ The content menu is displayed.
- 4 Select a file, then press **▶II**.

Tip

- For more play options, see chapter 'Play'.

Play from a USB card reader

- 1 Flip down the flap on the front panel.
- 2 Connect the USB device to the  USB socket.
- 3 Press **USB**.
↳ The content menu is displayed. Each memory card in the reader is assigned its own folder.
- 4 Select a folder and press **OK**.
- 5 Select a file, then press **▶II** to start.

Tip

- During play, when you select another card in the reader, play stops.

Play from disc

Playable discs

	DVD Video (Digital Versatile Disc) <ul style="list-style-type: none"> • Region 2/ ALL (Asia Pacific, Taiwan, Korea). • Region 4/ ALL (Australia, New Zealand). • Region 6/ ALL (China)
	DVD±RW (DVD Rewritable)
	
	DVD±R (DVD Recordable)
	
	DVD+R DL (DVD+R Double Layer)
	CD-RW (CD-Rewritable) <ul style="list-style-type: none"> • MP3/WMA/JPEG/DivX
	CD-R (CD-Recordable) <ul style="list-style-type: none"> • MP3/WMA/JPEG/DivX
	Audio CD (Compact Disc Digital Audio)
	Video CD
	Super Video CD



Notes




- DVDs and DVD players are designed with regional restrictions. Before you play a disc, make sure it is for the same region zone as your device (indicated on its rear).
- If the inhibit icon (X) is displayed when a key is pressed, it means the function is not available.
- Do not push on the disc tray or put any objects other than discs on the disc tray. It may cause the disc player to malfunction.

Play a disc



Caution!

- Never place any objects other than discs into the disc tray.
- Never look into the laser beam inside the recorder.

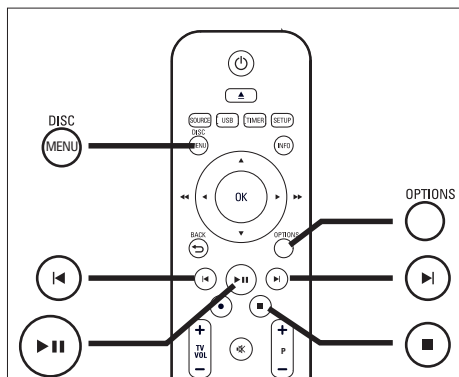
- 1 Press .
- 2 Turn on the TV to the correct viewing channel for the recorder.
- 3 Press .
 - ↳ The disc tray opens.
- 4 Place the disc on to the tray and press .
 - Ensure that the label is facing upwards.
 - For double-sided discs, load the side which you want to play as indicated on the disc.
- 5 Play starts automatically.
 - If play does not start, press **DISC MENU** to display the disc content. Select a track and press **▶II**.



Tip

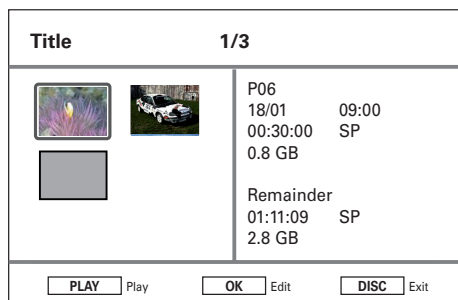
- For more playback options, see chapter 'Play'.

Play video



Play a recorded title

- 1 Press **DISC MENU**.
↳ The title menu is displayed.



- 2 Select a title and press **►II**.

Play a DivX file

Play DivX files copied from your computer onto a CD-R/RW, recordable DVD or USB device.

- 1 Insert a disc or connect a USB device.
- 2 Select a source:
 - **For discs:** press **DISC MENU** until the content is displayed.
 - **For USB devices:** press **USB** until the content is displayed.
- 3 Select an item and press **OK**.
 - If the disc contains many tracks/ titles/ files, press **◀ ▶** to view the previous/ next page of file names.
- 4 Select a file to play and press **OK**.
 - To stop playback, press **■**.
 - To select another subtitle language, press **SUBTITLE**.
 - You can select another character set, see chapter "Adjust Settings – Playback settings - Set DivX(R) subtitle font".



Notes

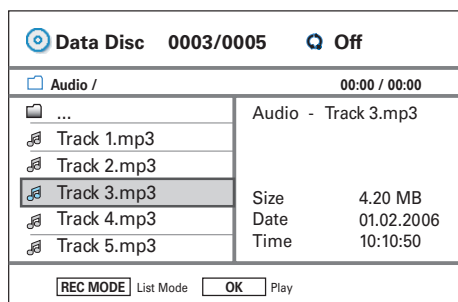
- The supported subtitle file formats include: .srt, .smi, .sub, .sami.
- Low-quality DivX video may be pixelated.

Play music

Play MP3/ WMA files

Play most of MP3/ WMA audio files and recorded on a recordable DVD, CD or USB flash drive.

- 1 Insert a disc or connect a USB device.
- 2 Select a source:
 - **For discs:** press **DISC MENU** until the content is displayed.
 - **For USB devices:** press **USB** until the content is displayed.



- 3 Select an item and press **OK**.
 - If the disc contains many tracks/ titles/ files, press **◀ ▶** to view the previous/ next page of file names.
- 4 Select a file to play and press **OK**.
 - To stop playback, press **■**.



Tips

- Only the first session of a multi-session CD is played.
- This recorder does not support MP3PRO audio format.
- If any special characters are present in the MP3 track name (ID3) or album name, it might not be displayed correctly on the screen because these characters are not supported.

Select another track/ file

When a disc or folder contains several tracks or files, you can select a different track or file during playback.

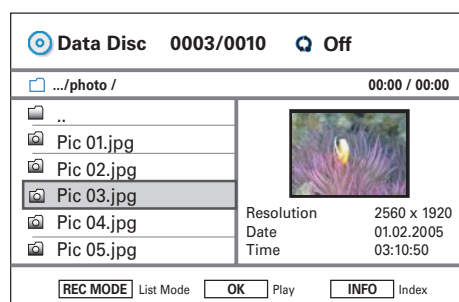
Action	Button
To go to the next track/file.	▶
To return to the start of the previous track/file.	◀

View photos

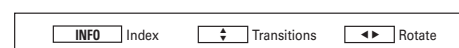
Play a picture disc (slide show)

You can view JPEG files as a slide show.

- 1 Insert a disc or connect a USB device.
- 2 Select a source:
 - **For discs:** press **DISC MENU** until the content menu is displayed.
 - **For USB devices:** press **USB** until the content menu is displayed.



- 3 Select the folder and press **OK**.
 - If the disc contains many tracks/titles/files, use **◀▶** to view the previous/next page of file names.
 - To return to the previous level, press **BACK**.
- 4 Select a file and press **OK**.
 - ↳ The slide show begins.
- 5 During play, press **OPTIONS**.
 - ↳ The options menu is displayed. It lists the functions of the keys on the remote control.



Action	Button
To display the index of thumbnail on one screen.	INFO
To view the previous/next picture.	◀▶
In index menu, to view the previous/next page of thumbnails.	◀▶
To enter/exit zoom mode. Press repeatedly to select the zoom factor.	ZOOM
In zoom mode, to pan through the enlarged picture.	◀▶▲▼
To rotate the picture.	◀▶
To switch between transitions during slide show playback.	▲▼

- 6 Press **BACK** to return to the main menu.
- 7 To stop and view the content menu, press **■**.

Start a musical slide show playback,

- 1 Select an MP3 file and press **OK**.
 - ↳ The MP3 file starts playback.
- 2 Select a picture file in the menu and press **OK**.
 - ↳ The slide show begins.

Supported JPEG picture formats File format:

- The file extension has to be '.JPG', '.JPE' or '.JPEG.'
- This recorder can only display digital camera pictures according to the JPEG-EXIF format, typically used by almost all digital cameras. It does not display Motion JPEG or pictures in formats other than JPEG or sound clips associated with pictures.



Tips

- Discs recorded on a personal computer may not be able to play on this recorder.
- It may require a longer time for the recorder to display the disc content due to the large number of songs/pictures compiled into one disc.
- If the JPEG picture is not recorded with an 'exif' type file, the actual thumbnail picture will not be displayed in the content menu.

Enlarge a picture

You can enlarge the picture on the screen and pan through the picture.

- 1 Press **ZOOM** repeatedly.
↳ The zoom mode is activated.
- 2 Use **▲▼◀▶** keys to pan through the enlarged picture.
- 3 To exit, press **ZOOM** repeatedly until normal size resumes.

Play from a digital camera

- 1 Connect the digital camera to the USB socket on the front panel.
- 2 Use the digital camera to control playback settings.

Control Play

Select another title/ chapter

During play, select another title or chapter by following these steps:

Action	Button
To go to the next chapter.	▶
To return to the start of the previous chapter.	◀
To select by a chapter number.	Numeric keys 0 - 9

OR

Select by the title number,

- 1 During play, press **OPTIONS**.
↳ The options menu is displayed.
- 2 Select the title icon and press **OK**.



- 3 Use **▲▼** to change the entry.
↳ Playback skips to the selected title.
- 4 To exit the menu, press **OPTIONS**.

Select by the chapter number,

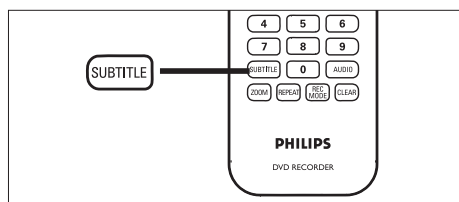
- 1 During play, press **OPTIONS**.
↳ The options menu is displayed.
- 2 Select the chapter icon and press **OK**.



- 3 Use **▲▼** to change the entry.
↳ Playback skips to the chapter.
- 4 To exit the menu, press **OPTIONS**.

Select a subtitle language

Select a subtitle language on DVDs or DivX® Ultra discs.



- 1 During disc play, press **SUBTITLE**.
- 2 Select a language and press **OK**.
 - If the selected language is not available, the default disc language is used.

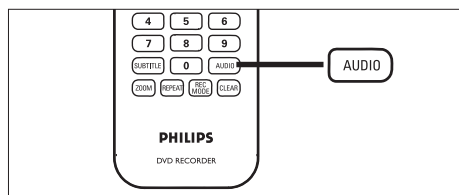


Tip

- For some discs, the language must be set from the disc menu. Press **DISC MENU** to access the disc menu.

Select an audio language

Select an audio language on DVDs or VCDs.



- 1 During disc play, press **AUDIO**.
 - ↳ The language options appear. If the selected audio channel is not available, the default disc audio channel will be used.



Tip

- For some discs, the language must be set from the disc menu. Press **DISC MENU** to access the disc menu.

Search forward/ backward

You can fast forward search or fast reverse search the video content during playback.

- 1 During play, press and hold **◀** or **▶**.
 - ↳ The search status bar is displayed and the sound is muted.
- 2 Press **◀** or **▶** repeatedly to cycle through the different speed options.
 - To resume normal playback, press **▶▶**.

Search by time

You can skip to a specific point on the disc.

- 1 During play, press **OPTIONS**.
 - ↳ The video options menu is displayed.
- 2 Select the time search entry icon in the menu and press **OK**. The elapsed playing time will change to time entry field.



- 3 Use the **numeric keypad (0-9)** to input the 6-digit time. Disc play skips to the entered time.

Motion playback

To move the picture frame-by-frame,

- 1 During playback, press **▶▶**.
 - ↳ Playback pauses and displays a still picture.
- 2 Press **◀** or **▶** keys repeatedly to move the frame back or forward.
 - To resume normal playback, press **▶▶**.

To play fast forward,

- 1 During playback, press ►II.
- 2 Press and hold ► key to fast forward play.
- 3 Press ► repeatedly to cycle through the different motion speed options.
- 4 To resume normal playback, press ►II.

To play fast reverse,

(Not applicable to DivX files/ VCD/ SVCD discs)

- 1 During playback, press ►II.
- 2 Press and hold ◀ key to fast forward play.
- 3 Press ◀ repeatedly to cycle through the different motion speed options.
- 4 To resume normal playback, press ►II.

Set playback control - PBC

Some (Super) Video CDs feature 'PBC' (Play Back Control). This allows you to play the video CDs interactively by following the menu on the display.

- 1 Insert a (Super) Video CD.
 - If the disc menu is displayed, select an option and press **OK**.
- 2 During playback, press **OPTIONS**.
- 3 Select **PBC [On]** or **PBC [Off]** and press **OK**.
- 4 To stop playback, press ■.

Select repeat/ random play options

You can select various repeat functions during playback. The repeat play options vary depending on the disc type.

- 1 During play, press **REPEAT**.
↳ The repeat options are displayed.
- 2 Press **REPEAT** repeatedly to select the repeat option and press **OK**.

[Track] / [Title]

Repeat play of the current track/ title.

[Chapter] - DVD, DVDR, DVDRW only

Repeat play of the current chapter.

[Repeat] - MP3, WMA, JPEG, picture and audio only

Repeat the selected file only.

[Repeat All] / [All]

Repeat play of all files or tracks.

[Once] - MP3, WMA, JPEG, picture and audio only

Play only once.

[Random] - MP3, WMA, JPEG, picture and audio only

Randomly play all the tracks within the disc.

- 3 To cancel repeat play, press **REPEAT** repeatedly to select **[Off]**.



Repeat a specific scene (A-B)

You can repeat play of a specific segment within a title or chapter. To do so, you must mark the start and end of the segment you want.

- 1 During play, press **OPTIONS**.
↳ The options menu is displayed.
- 2 Select the repeat icon and press **OK**.
- 3 Select [**A -**] at the point to mark the start point for repeat play.
- 4 Select [**A - B**] at the end point.
↳ Play skips to the start of the marked segment. The segment is repeated until repeat mode is cancelled.
- 5 To cancel repeat play, repeat steps 1 and 2, then select [**A - B Off**].

Switch camera angles

This option is only available with DVDs that contain sequences recorded from different camera angles. You can view the scene from different angles.

- 1 During play, press **OPTIONS**.
↳ The video options menu is displayed.
- 2 Select  [**Angle**] and press **►**.
- 3 Use **◀▶** keys to select a preferred camera angle available on the disc.
 - If multiple angles function is supported, the  icon will appear.

Resume play from the last stopped point

This option is available during play of DVDs/ VCDs. If a disc has been played on this recorder before, you can resume disc play from its last stopped point.

Before you start...

Ensure that you have enabled the function.

- 1 Press **SETUP**.
↳ The setup menu is displayed.
- 2 Select [**Playback**] and press **►**.
- 3 Select [**Resume**] and press **►**.
- 4 Select [**On**] and press **OK**.
↳ The resume play function is enabled.

To resume playback after you have stopped play

- 1 Insert the disc and press **►II**.
↳ Playback starts from the last stopped point.

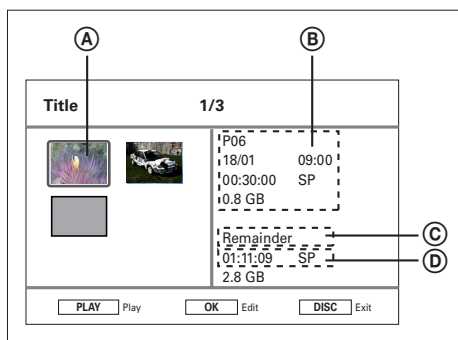
To start playback from the beginning

- 1 Insert the disc and press **►II**.
↳ Playback starts from the last stopped point.
- 2 Press **I◀**.
↳ Playback starts from the first title/track.

7 Edit Recordings

About the disc menu

The disc menu screen shows the recordings on a recordable DVD. It is displayed once you insert a recordable DVD and press **DISC MENU**.



The disc menu screen displays information on:

- (A) The thumbnail of a title.
- (B) The title name, recording time, recording quality and the disc space used.
- (C) The remaining recording time according to the recording mode. Press **REC MODE** to select the recording mode.
- (D) The remaining disc space.

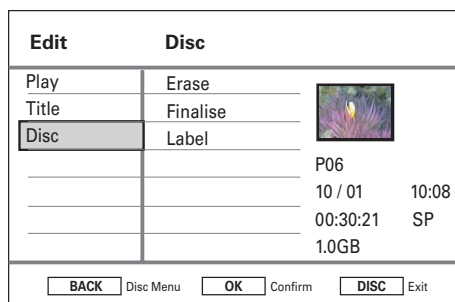
Edit a recordable DVD

The disc edit menu provides to disc editing functions:

- erase all recordings.
- finalise the DVD±R disc.
- change disc name.

Erase all recordings

- 1 Press **DISC MENU** to access the disc menu.
- 2 Select a title and press **OK**.
- 3 Select [**Disc**] and press **OK**.
↳ The disc edit menu is displayed.




- 4 Select [**Erase**] and press **OK**.
↳ A confirmation message is displayed.
- 5 Select [**OK**] in the menu and press **OK**.
 - All unprotected titles on the disc are erased.
 - To cancel, select [**Cancel**] and press **OK**.

Edit the disc name

The disc name is automatically generated by the recorder. You can edit the disc name.

- 1 Press **DISC MENU** to access the disc menu.
- 2 Select a title and press **OK**.
- 3 Select **[Disc]** and press **OK**.
↳ The disc edit menu is displayed.
- 4 Select **[Label]** and press **OK**.
↳ A keyboard screen is displayed.
- 5 Select the key to enter, then press **OK**.
• Use the following options to edit.

Option	Action
[Space]	Insert a space between the characters.
	Remove the character to the left of the cursor.
[Confirm]	Confirm all changes and exit the keyboard screen.

- Use **◀▶▲▼** keys to highlight the respective option.
 - Press **◀▶** repeatedly to toggle between upper, lower case characters or symbols.
 - To cancel the changes, press **BACK**.
- 6 To confirm, select **[Confirm]** and press **OK**.
↳ The disc is renamed.

Edit titles on the recordable DVD



Note

- If a DVDR has been finalised, it cannot be edited.


After recording a title, the title edit menu provides access to these edit functions:

- erase a title
- hide an unwanted scene
- edit a title name
- divide a title
- protect the title

Erase a title

Erase a title (recording) on a recordable DVD disc.

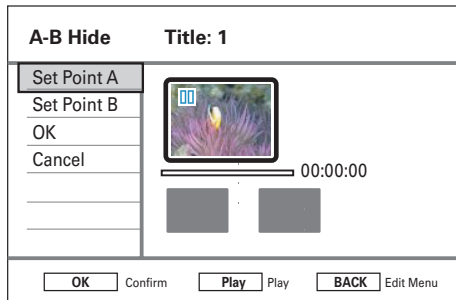
- 1 Press **DISC MENU**.
- 2 Select a title and press **OK**.

Edit	Title	
Play	Erase	
Title	A-B Hide	
Disc	Unhide	
	Rename	P06
	Divide	10 / 01 10:08
	Protect	00:30:21 SP
		1.0GB
<div> BACK Disc Menu OK Confirm DISC Exit </div>		

- 3 Select **[Title]** and press **OK**.
- 4 Select **[Erase]** and press **OK**.
↳ A confirmation message is displayed.
- 5 Select **[OK]** in the menu and press **OK**.
• To cancel, select **[Cancel]** and press **OK**.

Hide an unwanted scene in a title (DVDRW only)

- 1 Press **DISC MENU**.
- 2 Select a title and press **OK**.
- 3 Select **[Title]** and press **OK**.
- 4 Select **[A-B Hide]** and press **OK**.
↳ The title screen is displayed in pause mode.



- 5 Press **►II**.
 - Press and hold **◀▶** keys to make a fast forward/ reverse search. OR,
 - In pause mode, use **◀▶** keys to move frame-by-frame.
- 6 Press **►II** at the start point.
- 7 To make the start point, select **[Set Point A]**, then press **OK**.
- 8 Locate the end point, select **[Set Point B]**, then press **OK**.
↳ The scenes to erase are marked.
- 9 To confirm, select **[OK]**, then press **OK**.
↳ This scene is hidden during title play.

Reveal a hidden scene in a title

- 1 Press **DISC MENU**.
- 2 Select a title and press **OK**.
- 3 Select **[Title]** and press **OK**.
- 4 Select **[Unhide]** and press **OK**.
↳ The hidden scene is played.



Tip

- If the **[Unhide]** option is not available, there are no hidden scenes in the title.

Edit the title name

- 1 Press **DISC MENU**.
- 2 Select a title and press **OK**.
- 3 Select **[Title]** and press **OK**.
- 4 Select **[Rename]** and press **OK**.
↳ A keyboard screen is displayed.
- 5 Select the key to enter, then press **OK**.
 - Use the following options to edit.

Option	Action
[Space]	Insert a space between the characters.
	Remove the character to the left of the cursor.
[Confirm]	Confirm all changes and exit the keyboard screen.

- Use **◀▶▲▼** keys to highlight the respective option.
 - Press **◀▶** or **▲▼** repeatedly to toggle between upper, lower case characters or symbols.
 - To cancel the changes, press **BACK**.
- 6 To confirm, select **[Confirm]** and press **OK**.
↳ The title is renamed.

Divide a title (DVDRW only)

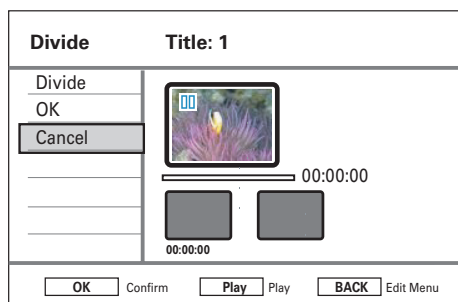
Divide a title into two or more titles. The title length must be more than 6 (six) seconds.



Warning!

- Once a title is divided, it cannot be merged.

- 1 Press **DISC MENU**.
- 2 Select a title and press **OK**.
- 3 Select [**Title**] and press **OK**.
- 4 Select [**Divide**] and press **OK**.
 - ↳ The title screen is displayed in pause mode.



- 5 Press **▶||** to start playback.

Details	Button
<ul style="list-style-type: none">• To make a fast forward/ reverse search.• In pause mode, press to move frame-by-frame.	

- 6 Select [**Divide**] and press **OK**.
 - ↳ The dividing point is marked.
- 7 Select [**OK**], press **OK**.
 - ↳ A new title is created and will shown in the disc menu index.

Protect/ Unprotect a title

You can protect the recorded title to prevent accidental loss of recordings.

- 1 Press **DISC MENU**.
- 2 Select a title and press **OK**.
- 3 Select [**Title**] and press **OK**.
- 4 Select [**Protect**] and press **OK**.
 - ↳ A confirmation message is displayed.
- 5 Select [**OK**] in the menu.
 - ↳ The title is protected. It cannot be erased or edited.
 - To cancel, select [**Cancel**] and press **OK**.

To unprotect a title,

- 1 Repeat steps 1 - 3, select [**Unprotect**] and press **OK**.
 - ↳ A confirmation message is displayed.

Overwrite a title/titles (DVDRW only)

This recorder is built with an overwriting function which allows you to record over a selected title

Enable the overwrite function

- 1 Press **SETUP**.
↳ The setup menu is displayed.
- 2 Select [**Recording**] and press **▶**.
- 3 Select [**Overwrite**] and press **▶**.
- 4 Select [**On**] and press **OK**.
↳ The overwrite function is enabled.

To start recording,

- 1 Press **DISC MENU**.
↳ The disc menu is displayed.
- 2 Select the title to overwrite and press **●**.
↳ A warning message is displayed.
- 3 Select [**OK**] and press **OK**.
↳ The new recording records over the selected title and subsequent titles.

Play your recordings on other players

You have prepare the recorded DVDR or DVDRW before you can play it on another DVD player.

Prepare a DVDR for playback



Note

- Once a DVDR disc is finalised, no further recordings or editing can be made to it. Ensure that you have completed all recording and editing before finalising the disc.

- 1 Press **DISC MENU** to access the disc menu.
- 2 Select a title and press **OK**.
↳ The editing menu is displayed.
- 3 Select [**Finalise**] and press **OK**.
↳ A warning message is displayed.
- 4 Select [**OK**] in the menu and press **OK**.
↳ Finalisation begins. The process takes a few minutes depending on the length of recordings. Do not open the disc tray or switch off the power as this may render the disc unusable.

Prepare a DVDRW for playback

- 1 Press **SETUP** to access the setup menu.
- 2 Select [**Disc**] and press **OK**.
- 3 Select [**Make Compatible**] and press **OK**.
↳ A warning message is displayed.
- 4 Select [**OK**] in the menu and press **OK**.
 - The process takes a few minutes depending on the length of recordings. Do not open the disc tray or switch off the power as this may render the disc unusable.



Tip

- If the option [**Make Compatible**] is not available, the disc is already compatible for playback.

8 Adjust Settings

Tuner Settings

Sort preset channels

- 1 Press **SETUP**.
- 2 Select [**Tuner**] > [**Manage Presets**], then press **OK**.
- 3 Select a channel, then press **◀**.

Manage Presets					
	PR	CH	Fine	NICAM	Station
Move Up	1	C03	0	On	P01
Move Down	2	C05	0	On	P02
NICAM	3	C08	0	On	P03
Rename	4	C10	0	Off	P04
Manual Setting	5	C12	0	On	P05
<div> <div>◀▶</div> <div>Prev/ Next</div> <div>OK</div> <div>Confirm</div> <div>BACK</div> <div>Exit</div> </div> <div> <div>CLEAR</div> <div>Skip</div> </div>					

- 4 Select [**Move Up**] or [**Move Down**].
- 5 Press **OK** repeatedly until the channel is at the preferred position.
- 6 To exit, press **BACK**.

Tune/ Modify a channel manually

- 1 Press **SETUP**.
- 2 Select [**Tuner**] > [**Manage Presets**], then press **OK**.
- 3 Select a channel, then press **◀**.
- 4 Select [**Manual Setting**] and press **OK**.

PR	Seek (MHZ)	CH	Fine	Standard
5	95.25	C21	0	PAL B/G

BACK

Back

OK

OK

- 5 Use **▲▼** keys to change the setting and **◀▶** keys to select the previous/next entry field.

[PR]

Displays the programme preset number.

[Seek (MHZ)]

Use **▲▼** keys to seek for a valid frequency transmission.

[CH]

Use **▲▼** keys to select a TV channel.

[Fine]

Use **▲▼** keys to increase/decrease the frequency by 0.06~0.07 MHz.

[Standard]

Use **▲▼** keys to select a TV system standard that produces the least distortion of picture and sound.

- 6 Once complete, press **OK**.
 - To cancel the changes, press **BACK**.

Enable NICAM sound

NICAM is a digital sound transmission system. It transmits either one stereo channel or two separate mono channels.

- 1 Press **SETUP**.
- 2 Select [**Tuner**] > [**Manage Presets**], then press **OK**.
- 3 Select a channel, then press **◀**.
- 4 Select [**NICAM**], then press **OK** repeatedly to toggle between:


[**On**]
Enable NICAM mode.

[**Off**]
Disable NICAM mode.
- 5 To exit, press **SETUP**.

Rename a channel

- 1 Press **SETUP**.
- 2 Select [**Tuner**] > [**Manage Presets**], then press **OK**.
- 3 Select a channel, then press **◀**.
- 4 Select [**Rename**], then press **OK**.
↳ The keyboard screen is displayed.

- 5 Select the key to enter, then press **OK**.
 - Use the following options to edit.

Option	Action
[Space]	Insert a space between the characters.
	Remove the character to the left of the cursor.
[Confirm]	Confirm all changes and exit the keyboard screen.

- Use **◀▶▲▼** keys to highlight the respective option.
 - Press **◀▶** or **▶▶** repeatedly to toggle between upper, lower case characters or symbols.
 - To cancel the changes, press **BACK**.
- 6 To confirm, select [**Confirm**] and press **OK**.

Re-install all channels



Note

- All channels stored on the recorder will be reset.

- 1 Press **SETUP**.
- 2 Select [**Tuner**] > [**Auto Search**], then press **OK**.
↳ Channel tuning begins.
 - To cancel during channel tuning, press **OK**.
- 3 To exit, press **SETUP**.

Disc Settings

Format a recordable DVD disc

Some DVD+VR, DVD±R/+R DL and DVD±RW discs have to be formatted before it can be used for recording on this recorder.



Notes

- This option is required when you are using a rewritable DVD data disc (e.g. MP3, JPEG files) for video recording.
- Once the disc is formatted, all the contents on it will be removed.

- 1 Press **SETUP**.
- 2 Select [**Disc**] > [**Format**], then press **OK**.
↳ A confirmation message is displayed.
- 3 Select [**OK**] and press **OK**.
 - To cancel, select [**Cancel**], then press **OK**.
- 4 To exit, press **SETUP**.

Lock/ Unlock a disc

Prevent recordings from being accidentally erased or edited by locking the recordable DVD.



Note

- If the disc is locked, this option changes [**Unlock**]. This option is used to unlock a recordable DVD recorded on another DVD recorder.

- 1 Press **SETUP**.
- 2 Select [**Disc**] > [**Lock**], then press **OK**.
↳ A confirmation message is displayed.
- 3 Select [**OK**] and press **OK**.
 - To cancel, select [**Cancel**], then press **OK**.
- 4 To exit, press **SETUP**.

Prepare a DVDRW for playback

See chapter 'Edit titles on a recordable disc – Play the recorded DVD on other players'.

View disc information

Displays the current disc information.

- 1** Press **SETUP**.
- 2** Select **[Disc] > [Disc Info]**, then press **OK**.
↳ The disc information is displayed.

[Label]
Name of the disc.

[Title No.]
Total number of titles on the disc.

[Media]
Disc type.

[Status]
The status of the disc (recordable, blank, finalised or full).

[Space]
The capacity of the disc used for recording.

[Remainder]
The remaining time available for recording on the disc. It is dependent on the selected mode of recording quality.
- 3** To exit, press **SETUP**.

Playback Settings

Select language options



Notes

- If the selected language is not available on the disc, the default disc language will be used.
- For some DVDs, the language can only be changed through the DVD disc menu. Press DISC MENU to access the menu.

- 1** Press **SETUP**.
- 2** Select **[Playback]** and press **►**.
- 3** Select an option, then press **OK**.

[Audio Language]
Select the preferred audio language for DVD playback.

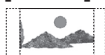
[Subtitle Language]
Select the preferred subtitle language for DVD playback.
- 4** Select the preferred setting and press **OK**.
- 5** To exit, press **SETUP**.

Set TV display format

The TV format determines the aspect ratio of display according to the type of TV you have connected.

- 1 Press **SETUP**.
- 2 Select [**Playback**] > [**TV Shape**], then press **OK**.
- 3 Select an option and press **OK**.

[4:3 PS]



Select this for a full-height picture with both sides trimmed.

[4:3 LB]



Select this for a 'wide screen' display with black bands on the upper and lower portions of the TV screen.

[16:9]



Select this for a wide screen TV (frame ratio 16:9).

- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Enable resume play

See chapter 'Play video – Resume play from the last stopped point'.

Set parental control

Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. You can set a playback permission level for the scenes with this setting.

- 1 Press **SETUP**.
- 2 Select [**Playback**] > [**Parental Control**], then press **OK**.
- 3 Select an option and press **OK**.

[KID SAFE]

Childsafe; acceptable for viewers of all ages.

[G]

General Audience; recommended as acceptable for viewers of all ages.

[PG]

Parental Guidance suggested.

[PG 13]

Unsuitable for children under age 13.

[PGR]

Parental Guidance; recommended that parents restrict children under 17 from viewing.

[R]

Restricted; recommended only when supervised by a parent or adult guardian.

[NC]

Not recommended for viewing by children.

[ADULT]

Mature Material; should be viewed only by adults due to graphic sexual material, violence or language.

- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Change password

Change the password for parental control. This 4-digit password may be required when you are playing a prohibited disc.

- 1 Press **SETUP**.
- 2 Select [**Playback**] > [**Change Password**], then press **OK**.

Change Password

Old Password
[] [] [] []

New Password
[] [] [] []

Confirm New Password
[] [] [] []

Enter the password with digit keys.

BACK Back **OK** OK

- 3 Enter the existing four digit password.
 - If you are entering the password for the first time, the default password is '1234'.
- 4 Enter the new four digit pin code.
- 5 Enter the same four digit pin code again, then press **OK**.
- 6 Select [**OK**] and press **OK**.
- 7 To exit, press **SETUP**.
 - To cancel, press **BACK**.

View DivX(R) VOD registration code

Select to view the DivX® VOD (Video On Demand) registration code that allows you to rent or purchase videos using DivX® VOD services. For more information, visit www.divx.com/vod.

- 1 Press **SETUP**.
- 2 Select [**Playback**] > [**DivX(R) VOD DRM**], then press **OK**.
 - ↳ The registration code is displayed. Use this code to purchase or rent videos from DivX® VOD service at www.divx.com/vod.
- 3 To exit, press **SETUP**.

Set DivX(R) subtitle font

- 1 Press **SETUP**.
- 2 Select [**Playback**] > [**DivX Subtitle Font**], then press **OK**.
- 3 Select an option and press **OK**.
 - [**Standard**]
Display a standard list of Roman subtitle fonts supported on this recorder.
 - [**Central Eur. .**]
Display Central European fonts.
 - [**Cyrillic**]
Display Cyrillic fonts.
 - [**简体中文**]
Display Chinese fonts.
- 4 To exit, press **SETUP**.
 - To cancel the changes, press **BACK**.

Recording Settings

Select the recording quality

See chapter 'Record – Before you record'.

Select the recording language

See chapter 'Record – Before you record'.

Set auto chapter markers

Divide a recording (title) into chapters by inserting chapter markers at a specific interval. This enables you to access a specific point in the recording quickly.

- 1 Press **SETUP**.
- 2 Select [**Recording**] > [**Auto Chapter**], then press **OK**.
- 3 Select an option and press **OK**.
 - [**On**]
 - Chapter markers are inserted automatically within the title during recording at every 5 (five) minutes interval.
 - For DVD+R DL discs, chapter markers are inserted automatically within the title during recording at every 10 minutes interval.
 - [**Off**]
 - No chapter markers are inserted in the recording.
- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Overwrite a title/ titles (DVDRW only)

See chapter 'Edit Recordings – Overwrite a title/ titles'.

Video Settings

Setup progressive scan

Progressive scan displays twice the number of frames per second than interlaced scanning (ordinary normal TV system). Progressive scan offers a higher picture resolution and quality.



Note

- Before you start, ensure you have connected a progressive scan TV to the recorder. See chapter 'Connect - Use the component video sockets'.

- 1 Press **SETUP**.
- 2 Select [**Video**] > [**Progressive Scan**], then press **OK**.
- 3 Select an option and press **OK**.
 - [**On**]
 - Enable progressive scan if the connected TV is progressive scan compatible.
 - [**Off**]
 - Disable this function if the TV is not compatible with progressive-scan video.
- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Set TV system

Select the colour system that matches the connected TV. This allows the DVD with a different colour system on this recorder.

- 1 Press **SETUP**.
- 2 Select [**Video**] > [**TV System**], then press **OK**.
- 3 Select an option and press **OK**.

[**AUTO**]

Automatically convert the video signal of a DVD disc and play it in its own format.

- This option is available only if the recorder is connected to a HDMI TV.

[**NTSC**]

Select this if the connected TV has NTSC colour system. It will convert the video signal of a PAL disc and play it in NTSC format.

[**PAL**]

Select this if the connected TV has PAL colour system. It will convert the video signal of a NTSC disc and play it in PAL format.

- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Set HDMI video

See the chapter 'Adjust Settings – Adjust HDMI video and audio'.

Audio Settings

Set audio downmix

Select a suitable audio downmix when you are playing a DVD recorded in Dolby Digital format.

- 1 Press **SETUP**.
- 2 Select [**Audio**] > [**Downmix**], then press **OK**.
- 3 Select an option and press **OK**.

[**LT/RT**]

Select this if the recorder is connected to a Dolby Pro Logic decoder.

[**Stereo**]

Select this to downmix the multi-channel audio signals to two channels which delivers sound from only the two front speakers.

- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Set digital output

Select a suitable setting if you have connected an audio/video device to the COAXIAL (DIGITAL AUDIO) socket on the recorder.

- 1 Press **SETUP**.
- 2 Select [**Audio**] > [**Digital Output**], then press **OK**.
- 3 Select an option and press **OK**.

[**PCM**]

Select this if the connected device cannot decode multi-channel audio. The system will convert the Dolby Digital and MPEG-2 multi-channel signals to PCM (Pulse Code Modulation).

[**ALL**]

Select this if the connected device supports multi-channel audio format. The audio output will be played according to the audio stream on the disc.

- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Set HDMI audio

See the chapter "Adjust Settings – Adjust HDMI video and audio".

Enable night mode

Night mode optimises playback of sound at low volumes

- 1 Press **SETUP**.
- 2 Select [**Audio**] > [**Night Mode**], then press **OK**.
- 3 Select an option and press **OK**.

[**On**]

Enable night mode. High volume output is softened and low volume output is increased to an audible level.

[**Off**]

Disable night mode. Enjoy surround sound with its full dynamic range.

- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

System settings

Change system menu language

- 1 Press **SETUP**.
- 2 Select [**System**] > [**Menu Language**], then press **OK**.
- 3 Select an option and press **OK**.
- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Adjust time and date

- 1 Press **SETUP**.
 - ↳ The system setup menu is displayed.
- 2 Select [**System**] > [**Clock Setting**], then press **OK**.
- 3 Use the numeric keypad to enter the correct time and date.
 - Use ◀▶ to select the previous/next field.
- 4 Press **OK** to confirm.
- 5 To exit, press **SETUP**.

Set clock format

- 1 Press **SETUP**.
 - ↳ The system setup menu is displayed.
- 2 Select [**System**] > [**Clock Mode**], then press **OK**.
- 3 Select an option and press **OK**.
 - [**12Hour**]
Display time in 12 hour format.
 - [**24Hour**]
Display time in 24 hour format.
- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Set screen saver

The screen saver protects the TV screen from damage due to prolong exposure to a static image. It is enabled by default.

- 1 Press **SETUP**.
 - ↳ The system setup menu is displayed.
- 2 Select [**System**] > [**Screen saver**], then press **OK**.
- 3 Select an option, then press **OK**.
 - [**On**]
Enable the screen saver. The screen saver activates after 5 minutes of inactivity.
 - [**Off**]
Disable the screen saver.
- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Set energy saving mode

This an energy saving mode.

- 1 Press **SETUP**.
 - ↳ The system setup menu is displayed.
- 2 Select [**System**] > [**Eco mode**], then press **OK**.
- 3 Select an option, then press **OK**.
 - [**On**]
Enable energy saving mode. In standby mode, the front panel display is switched off.
 - [**Off**]
Disable energy saving mode.
- 4 To exit, press **SETUP**.
 - To cancel, press **BACK**.

Restore default settings

Reset the recorder to factory default settings.



Note

- After the reset, the initial setup is required. See chapter 'Get Started'.

- 1 Press **SETUP**.
- 2 Select [**System**] > [**Restore default**], then press **OK**.
 - ↳ A confirmation message is displayed.
- 3 Select [**OK**] and press **OK**.
 - To cancel, select [**Cancel**], then press **BACK**.
- 4 To exit, press **SETUP**.

Adjust HDMI video and audio

Before you start...

Ensure that you have connected the recorder to a HDMI TV. (See chapter “Connect – Connect video/audio cables – Option 4”).

Adjust HDMI video

- 1 Press **SETUP**.
↳ The system setup menu is displayed.
- 2 Select [**Video**] and press ►.
- 3 Select [**HDMI Resolution**], then press **OK**.

[**Auto**]
Automatic selection of the highest video resolution of the connected HDMI TV.

[**Native**]
Selects the optimal video resolution of the connected HDMI TV.

[**480i**], [**480p**], [**576i**], [**576p**],
[**720p**], [**1080i**] or [**1080p**]
Select a video resolution according to the capability of the connected TV: “i” denotes interlace and “p” denotes progressive.
- 4 Select a setting and press **OK**.
 - To return to the previous menu, press **BACK**.
 - To exit the menu, press **SETUP**.

Adjust HDMI audio



Notes

- Ensure that you have alternative audio connection from the recorder to your TV or the display device for the sound output.
- It is not possible to listen to SACDs or copy-controlled DVD-Audio CPPM (Content Protection for Playable Media) sources using the HDMI connection.

- 1 Press **SETUP**.
↳ The system setup menu is displayed.
- 2 Select [**Audio**] and press ►.
- 3 Select [**HDMI Audio**] and press ►.

[**Auto**]
Automatic selection of audio output through the HDMI connection.

[**Disable**]
Disable HDMI audio output.
 - Select this if the connected device is unable to output sound through the HDMI connection or the audio format played is not supported by HDMI connection (e.g., projector, SACD).
- 4 Select a setting and press **OK**.
 - To return to the previous menu, press **BACK**.
 - To exit the menu, press **SETUP**.

9 Additional Information

Upgrade software

The software installed in your recorder is continuously being refined for greater stability and compatibility of the set. Periodically, Philips issues upgrades for the software which you can copy onto a CD to install on your recorder.



Caution!

- Power supply must not be interrupted during upgrade!

Visit Philips' website at 'www.philips.com/support' to check for the availability of the latest software upgrade.



Note

- When checking for the latest software upgrade, please also check for any accompanying instructions on installing the software.

Care

Energy saving

In order to minimise the power consumption in standby mode, we recommend you to enable Eco mode. See chapter 'Adjust settings - Set energy saving mode'.

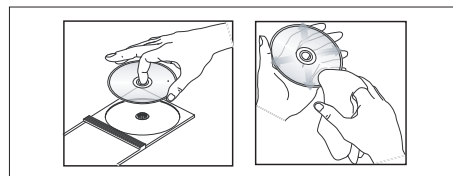
Clean discs



Caution!

- Never use solvents such as benzene, thinner, cleaners available commercially, or anti-static sprays intended for discs.

Wipe the disc with a micro fibre cleaning cloth from the centre to the edge in a straight line movement.



TV System Guide

COUNTRY	VHF	UHF	DVD REGIONS
AFGHANISTAN	PAL/SECAM B		5
ALBANIA	PAL B	PAL G	2
ALGERIA	PAL B	PAL G	5
ANGOLA	PAL I		5
ARGENTINA	PAL N	PAL N	4
AUSTRALIA	PAL B	PAL H	4
AUSTRIA	PAL B	PAL G	2
AZORES	PAL B		
BAHAMAS	NTSC M		4
BAHRAIN	PAL B	PAL G	2
BANGLADESH	PAL B		5
BARBADOS	NTSC M		4
BELGIUM	PAL B	PAL H	2
BERMUDA	NTSC M		
BOLIVIA	NTSC M	NTSC M	4
BOTSWANA	PAL I		5
BRAZIL	PAL M	PAL M	4
BRUNEI	PAL B	PAL B	
BULGARIA	SECAM D	SECAM K	2
BURKINA FASO	SECAM K1		5
BURMA	NTSC M		
BURUNDI	SECAM K1		5
CAMBODIA	NTSC M		3
CAMEROON	PAL B	PAL G	5
CANADA	NTSC M	NTSC M	1
CANARY ISLANDS	PAL B		2
CHAD	SECAM K1		5
CHILE	NTSC M	NTSC M	4
CHINA	PAL D		6
COLOMBIA	NTSC M	NTSC M	4
COSTA RICA	NTSC M	NTSC M	4
CROATIA	PAL B	PAL G	2
CUBA	NTSC M	NTSC M	4
CYPRUS	PAL B	PAL G	
CZECH REPUBLIC	PAL D	PAL K	2
DAHOMEY	SECAM K1		
DENMARK	PAL B	PAL G	2
DJIBOUTI	SECAM B	SECAM G	5
DOMINICAN REP	NTSC M	NTSC M	4
ECUADOR	NTSC M	NTSC M	4
EGYPT	SECAM B/PAL B	SECAM G/PAL G	2
EL SALVADOR	NTSC M	NTSC M	4
EQUAT. GUINEA	PAL B		5
ESTONIA	PAL B (was SECAM)	PAL D	5
ETHIOPIA	PAL B	PAL G	5
FIJI	PAL B		
FINLAND	PAL B	PAL G	2
FRANCE	SECAM L	SECAM L	2
FRENCH POLYNESIA	SECAM K1		
GABON	SECAM K1		5
GAMBIA	PAL I		5
GERMANY	PAL B	PAL G	2
GHANA	PAL B	PAL G	5
GIBRALTAR	PAL B	PAL H	2
GREECE	PAL B (was SECAM)	PAL G	2
GREENLAND	NTSC/PAL B		2
GUADELOUPE	SECAM K1		
GUAM	NTSC M		1
GUATEMALA	NTSC M	NTSC M	4
GUINEA	PAL K		5
GUYANA (FRENCH)	SECAM K1		4
HONDURAS	NTSC M	NTSC M	4

COUNTRY	VHF	UHF	DVD REGIONS
LIBYA	SECAM B	SECAM G	5
LITHUANIA	PAL D (was SECAM)	PAL K	5
LUXEMBOURG	PAL B/SECAM L	PAL G/SEC L	2
MADAGASCAR	SECAM K1		5
MADEIRA	PAL B		
MALAGASY	SECAM K1		
MALAWI	PAL B	PAL G	5
MALAYSIA	PAL B		3
MALI	SECAM K1		5
MALTA	PAL B	PAL H	2
MARTINIQUE	SECAM K1		
MAURITANIA	SECAM B		5
MAURITIUS	SECAM B		5
MEXICO	NTSC M	NTSC M	4
MONACO	SECAM L		2
MONGOLIA	SECAM D		5
MOROCCO	SECAM B		5
MOZAMBIQUE	PAL B		5
NAMIBIA	PAL I		5
NEPAL	PAL B		
NETHERLANDS	PAL B	PAL G	2
NETH. ANTILLES	NTSC M	NTSC M	
NEW CALEDONIA	SECAM K1		
NEW GUINEA	PAL B	PAL G	4
NEW ZEALAND	PAL B	PAL G	4
NICARAGUA	NTSC M	NTSC M	4
NIGER	SECAM K1		5
NIGERIA	PAL B	PAL G	5
NORWAY	PAL B	PAL G	2
OMAN	PAL B	PAL G	2
PAKISTAN	PAL B		5
PANAMA	NTSC M	NTSC M	4
PARAGUAY	PAL N	PAL N	4
PERU	NTSC M	NTSC M	4
PHILIPPINES	NTSC M	NTSC M	3
POLAND	PAL D	PAL K	2
PORTUGAL	PAL B	PAL G(was SECAM D)	2
PUERTO RICO	NTSC M	NTSC M	1
QATAR	PAL B		2
REUNION	SECAM K1		
RUMANIA	PAL D	PAL K	2
RUSSIA	SECAM D	SECAM K	5
RWANDA	SECAM K1		5
SABAH/SAWARA	PAL B		
ST. KITTS	NTSC M	NTSC M	
SAMOA (US)	NTSC M		1
SAUDI ARABIA	SECAM-B/PAL-B	SECAM G	2
SENEGAL	PAL		5
SEYCHELLES	PAL B	PAL G	5
SIERRA LEONE	PAL B	PAL G	5
SINGAPORE	PAL B	PAL G	
SLOVAK REPUBLIC	PAL	PAL	2
SOMALIA	PAL B	PAL G	5
SOUTH AFRICA	PAL I	PAL I	2
SPAIN	PAL B	PAL G	2
SRI LANKA	PAL B		5
SUDAN	PAL B	PAL G	5
SURINAM	NTSC M	NTSC M	4
SWAZILAND	PAL B	PAL G	
SWEDEN	PAL B	PAL G	2
SWITZERLAND	PAL B	PAL G	2
SYRIA	SECAM B		2

Specifications



Note

- Specification and design are subject to change without notice.

Accessories supplied

- Remote control and batteries
- RF antenna cable
- Audio/ video cable
- Quick Start Guide

Recording Media

- Recording media: DVD±R, DVD±RW, DVDR+DL

Playback Media

- DVD-Video, Video CD/SVCD, Audio CD, CD-R/CD-RW, DVD+R/+RW, DVD-R/-RW, DVDR+DL, Picture CD, MP3-CD, MP3-DVD, WMA-CD, USB flash drive
- Compression formats: MPEG2, MPEG1, DivX
- Video disc playback system: PAL, NTSC

Tuner/Reception/Transmission

- TV system: PAL
- Aerial Input: 75 Ohm coaxial (IEC75)

Picture/Display

- D/A converter: 10 bit, 54 MHz
- A/D converter: 10 bit, 27 MHz
- Picture enhancement: HDMI, Progressive scan

Sound

- D/A converter: 24 bit, 192 kHz
- A/D converter: 24 bit, 96 kHz
- Signal to noise ratio: 102 dB
- Crosstalk (1kHz): 105 dB
- Dynamic Range (1kHz): 90 dB

Video Recording

- Recording system: PAL
- Compression formats: MPEG2
- Recording modes: High Quality (HQ), Standard Play (SP), Standard Play Plus (SPP), Long Play (LP), Extended Play (EP), Super Long Play (SLP)
- Audio compression: Dolby Digital, PCM

Audio Playback

- Compression formats: Dolby Digital, MPEG2 Multichannel, PCM, MP3, WMA
- MP3 bit rates: 32~256 kbps and VBR

Still Picture Playback

- Disc formats: Picture CD, DVD±R, DVD±RW, DVDR+DL
- Picture compression formats: JPEG
- Picture enhancement: Rotate, Zoom

Convenience

- Programming/Timer Enhancements: Daily/Weekly, Repeat Programme, Manual Timer, One Touch Recording
- Programmable events: 7

Power

- Power supply: 110 - 240V, ~50/60 Hz
- Consumption: 18 W (typical)
- Standby power consumption: < 3W
- Eco standby power consumption < 2W

Cabinet

- Dimensions (W x H x D) : 360 x 53 x 307 mm
- Net Weight : 2.3 kg

Display panel symbols/ messages

The following symbols/ messages may appear on your recorder display:

00:00:00

Multifunction display/ text line

- Title/ track number
- Total/ elapsed/ remaining title/ track time
- Additional information regarding the disc
- TV channel number or source of video
- Clock (This is displayed in standby mode).
- TV programme title

BUSY

- The recorder is writing to the disc.

ERR

- The software update was not successful.
- The disc tray is blocked from opening.

FULL

- Disc is full. There is no more space for new recordings.

HELLO

- The recorder has been turned on.

LOAD

- Disc is being recognised by the recorder.

NO DISC

- No disc has been inserted. If a disc has been inserted, then it is possible that the disc cannot be read.

NO COPY

- During recording, the recorder has detected a copy protected video source. No recording will be made.

OPEN

- Disc tray is opening or opened.

REGION

- When the region code of the DVD is different from the recorder.

SETUP

- The recorder is in the setup menu or timer menu mode.

STOP

- When playback/ recording is stopped.

TIMER

- A timer recording has been programmed or is active.

10 Troubleshooting



Warning!


- Risk of electric shock. Never remove the casing of this recorder.

To keep the warranty valid, never try to repair the system yourself.

If you encounter problems when using this recorder, check the following points before requesting service. If the problem remains unsolved, register your product and get support at www.philips.com/welcome.

Main Unit

No power.

- Press  (Standby-On) button on the front of the recorder to turn on the system.
- Ensure that the AC outlet has power.



Remote control does not work.

- Aim the remote control directly at the sensor on the front of the recorder (not towards TV).
- Remove any obstacles between the recorder and the remote control.
- Batteries are weak. Replace the batteries.

No TV signal is received.

- Check the connection to the antenna or cable TV signal.
- Manually tune and store the TV channel. See chapter 'Adjust Settings – Tune/ Modify a channel manually'.

Cannot eject tray.

- Exit from any on-screen menu.
- Press  to stop play or recording, then press .

Picture

No picture

- Check the video connections. See chapter 'Connect'.
- Turn on the TV to the Video In channel.
- Use the TV remote control to select the channel until you see the DVD screen. See chapter 'Get Started'.
- Your DVD recorder might have been set to progressive scan mode while your TV does not support progressive scan. Follow the steps below:
 - 1) Connect the supplied AV cable (red/white/yellow) from the CVBS OUTPUT jacks on the rear panel of the DVD recorder to the TV's Video In and Audio In jacks.
 - 2) Turn on the TV and use the TV's remote control to select the corresponding video-in channel on the TV (eg., AV, EXT1, EXT2).
 - 3) Turn on the DVD recorder and wait until the TV displays the recorder screen. Turn off progressive scan using the setup menu. See chapter "Adjust settings – Video settings – Set progressive scan".

The picture is black and white or distorted.

- The disc does not match with the TV colour system standard (PAL/NTSC).
- The disc is dirty, clean the disc.
- At times, some picture distortion may occur. This is not a malfunction.
- If you have connected the recorder to a HDMI TV:
 - Check if your TV supports the selected HDMI video resolution. Select a lower HDMI video resolution. (See chapter "Adjust settings - Setup HDMI video and audio).
 - Change to a better quality HDMI cable (e.g. Category 2 cable).

There is picture or sound interference with the TV reception.

- Check the connection to the antenna or cable TV signal.
- Fine-tune your TV channel. Read chapter 'Adjust settings - Adjust HDMI video and audio'.

Unable to display JPEG pictures.

- This unit only supports pictures in JPEG-Exif file format with a resolution not exceeding 4096 × 4096 (horizontal/vertical). JPEG pictures that are downloaded from the internet or have been modified using the computer may not be displayed properly.

Sound

No sound.	<ul style="list-style-type: none">• Check the audio connections. See chapter 'Connect'.• Depending on the audio device you have connected to the recorder, set the digital output accordingly. See chapter 'Adjust Settings - [Audio] settings'.
The connected amplifier produces distorted sound.	<ul style="list-style-type: none">• Do not connect any cables from the recorder to the 'Phono' input of your amplifier.• If you are playing a DTS CD, connect the Hi-Fi system or amplifier to the COAXIAL (DIGITAL AUDIO) socket of this recorder.
No surround sound output on HDMI connection.	<ul style="list-style-type: none">• It depends on your TV audio capabilities. In this case, connect COAXIAL (DIGITAL AUDIO) socket from this recorder to your TV or AV amplifier/reciever, then disable the HDMI audio setting (See chapter 'Adjust settings - Adjust HDMI video and audio').

Play

Disc does not play.	<ul style="list-style-type: none">• Insert the disc with the label facing up.• Wrong region code. The DVD must be coded for ALL regions or Region 3 (Asia Pacific)/ Region 4 (New Zealand)/ Region 6 (China) for playback on this recorder.• There is no recording on the disc or it is a wrong disc type. See chapter 'Play - Play video'.• Ensure that the disc is not scratched or warped. Clean the disc or replace a new one.• Check if the disc is defective by trying another disc.
Unable to play DivX movies	<ul style="list-style-type: none">• Check that the DivX file is encoded according to the 'Home Theatre Profile' mode with DivX encoder.• Check that the downloaded DivX movie is a complete file.
A DVDR/ DVDRW recorded on this DVD recorder cannot play on a DVD player.	<ul style="list-style-type: none">• If a recording is too short, it is possible that a DVD player cannot detect it. Please follow the minimum recording times for each recording mode : [HQ] – 5 mins, [SP] – 10 mins, [SPP] – 13 mins, [LP] - 15 mins, [EP] – 20 mins, [SLP] – 30 mins.• You have to finalise the DVDR. See chapter "Edit Recordings - Play your recordings on other DVD Players".

The message 'UNKNOWN DISC' is displayed.

- This message may appear if you insert a disc that may have encountered one of the following:
 - Error during recording: the title may be missing.
 - Error while changing the title/ index picture: the original title/ index picture may be visible.
 - Error during the finalisation of the disc or the disc has not been finalised.

Recording

A TV channel installed during the DVD recorder's automatic TV channel search is fuzzy or distorted.

- Check the video connection between the DVD recorder and the TV.
- Press P **+** / **-** to search for the same TV channel which may have a clearer picture.
- You can fine-tune the signal of the TV channel. See chapter on "Adjust Settings – Tune/ Modify a channel manually".

Picture is fuzzy and brightness varies when copying DVD Video discs or pre-recorded video cassettes.

- This happens if you try to copy DVDs or video cassettes that are copy-protected. Even though the picture on the TV is fine, the recording on the recordable DVD disc appears distorted. This interference is unavoidable with copy-protected DVDs or video cassettes.
- The recordable DVD disc has a limited recording lifetime, please change to a new disc for recording.

Recordings are not occurring as scheduled. New recordings cannot be made.

- The TV channel you want is not stored or the wrong program number was selected. Check the TV channels stored.
- In the timer recording list, one of the following messages may be displayed in the [Status] column:
 - [Overlap] : the timer recording has overlapped with another timer recording.
 - [Failed] : A power cut had occurred at the time of the scheduled recording.
 - [Overdue] : The clock setting was adjusted after setting the timer recording.

11 Glossary

Analogue sound

Sound that has not been converted into numbers. Analogue sound varies, while digital sound has specific numerical values. These sockets send audio through two channels, the left and right.

Aspect ratio

The ratio of vertical and horizontal sizes of a displayed image. The horizontal vs. vertical ratio of conventional TVs. is 4:3, and that of wide-screens is 16:9.

AUDIO OUT sockets

Red and white sockets that send audio to another system (TV, Stereo, etc).

Chapter

Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Component Video Out sockets:

Sockets that send high quality video to a TV that has Component Video In sockets (R/G/B, Y/Pb/Pr, etc).

Digital

Sound that has been converted into numerical values. Digital sound is available when you use the COAXIAL (DIGITAL AUDIO) socket. These sockets send audio through multiple channels, instead of just two channels as analogue does.

Disc menu

A screen display prepared for the selection of images, sounds, subtitles, multi-angles, etc recorded on a DVD.

DivX

The DivX code is a patent pending, MPEG-4 based video compression technology, developed by DivX Inc., that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

Dolby Digital

A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, centre and subwoofer).

JPEG

A common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio.

MP3

A file format with a sound data compression system. "MP3" is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. By using the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD.

MPEG

Motion Picture Experts Group. A collection of compression systems for digital audio and video.

Multichannel

DVDs are formatted to have each sound track constitute one sound field. Multichannel refers to a structure of sound tracks having three or more channels.

PBC - Playback Control

Refers to the signal recorded on video CDs or SVCDs for controlling playback. By using menu screens recorded on a Video CD or SVCD that supports PBC, you can enjoy interactive playback and searching.

PCM Pulse Code Modulation

A digital audio encoding system.

Region code:

A system allowing discs to be played only in the region designated. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the product label. Some discs are compatible with more than one region (or ALL regions).

S-Video

Produces a clear picture by sending separate signals for the luminance and the colour. You can use S-Video only if your TV has an S-Video In socket.

Surround sound

A system for creating realistic three dimensional sound fields full of realism by arranging multiple speakers around the listener.

Title

The section of a movie or music feature on DVD. Each title is assigned a title number, enabling you to locate the title you want.

VIDEO OUT socket

Yellow socket that sends the DVD picture video to a TV.